BOOK

| ns | | Contents | Reference to last Measureme |
|---|---|---|---|
| eadth 5 | Depth 6 | 7 | 8 |
| | | | |

Second & Final Bill

Jobcode: 009-15-000020

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249038

erial No. Emergency works (construction of culvert and other works) in ward No.09

ame of Work Vidyaranyapura Sub Division. From..... To.....

ame of Contractor of nature of Agency K.V. Subbareddy.

ate of commencement of work ..... BR-624 | 26-11-16

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Work order Hoodi/Head No: EE/BTP/BBMP/E-PMP/81/2016-17 Dated: 27.07.2016. | | | | | | |
| | Est cost: 20.00 Lakhs | | | | | | |
| | Date of Recording: 18.10.16 | | | | | | |
| | 1) Earth work excavation for foundations & buildings, culverts, water supply sanitary line and electrical conduits either in pits or in trenches 1.5m and above width in hard soil not exceeding 1.5m in depth including dressing the bottoms and sides of pits and trenches stacking stacking the excavated soil clear of the edges & excavated with lead upto 50m after breaking of clods as complete. | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Previous qty Recorded vide page No. 249029 of this MB is | | | | | 138.13 m3 | |
| | Present qty as per Premeasurement Recorded vide page no. 249089 of this MB is | | | | | 95.78 m3 | |
| | | | | @Rs | 260.00/m3 | | 24903=00 |
| 2) | providing and laying in position plain cement concrete of mix 1:4:8 with opc cement @ 180kgs with 40mm and down size graded granite metal course aggregate @ 0.85 cum and fine aggregate @ 0.52 cum machine mixed concrete laid in layers not exceeding 15cm thick well compacted in foundation and plinth including cost of all materials labour etc complete | | | | | | |
| | Previous qty Recorded vide page No. 249030 of this MB is | | | | | 17.52 m3 | |

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Nur |
|---|---|---|
| 1 | 2 | |
| | present qty vide page | |

# MENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| Length 4 | Breadth 5 | Depth 6 | 7 | 8 |
| ...eded vide page No. MB i/s | | | 138·13 m³ | |
| ...re measurement Recorded ...089 of this MB i/s | | | 95.78 m³ | |
| | Qty | 260·00 m/m³ | | 24903=00 |
| ...cement concrete grade 1:4:8 ...down size graded granite ...e upto plinth level @ 0·57 cum machine ...ding 15 cm thick well compacted ...f all materials, labour etc | | | | |
| ...eded vide page No. ...'s | | | 14·52 m³ | |

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B**

249039

...erial No. .....
...ame of Work ..... From..... To.....
...ame of Contractor of nature of Agency .....
...ate of commencement of work .....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | present qty as per premeasurement Recorded vide page No. 249088/1 of this MB i/s | | | | | total qty 70.17 m³ | |
| | | | qty upto 125 T. | | | 30.97 m³ | |
| | | | | | Qty 4840·00 m/m³ | | 149895=00 |
| | | | qty above 125 T. | | | 21·69 m³ | |
| | | | | | Qty 4926·44 m/m³ | | 106854=00 |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3) | providing and constructing granite / trap / balalt/ size stone masonry in foundation with cement mortar 1:6 stone hammered dressed in course not less than 20 cm high bond stone at 2m apart in each course including cost & materials labours curing etc complete | 2 | 15.00 | 0.60 | 1.25 | 22.50 m³ | |
| | | | | Rs. 3830.00/m³ | | | 86175.00 |
| 4) | providing and construction granite / trap / balalt size stone masonry in basement with cement concrete 1:6 edges & stones chisstle dressed in course not less than 15cm high bond stones at 2m apart in each course including cost & materials labours curing complete as per specification | | | | | | |
| | previous qty Recorded vide page No: 249 to 31 of this MB is | | | | | 24.79 m³ | |

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work |
|---|---|
| 1 | 2 |
| | present |
| 5) | providing ruled pointing to 1:4 20mm deep after raking including cost & material la |
| | previous |
| | this MB |

MENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| ngth 4 | Breadth 5 | Depth 6 | 7 | 8 |
| baladi/ size stone masonry a hammered dressed in at 2m apart in each course to complete | | | | |
| 00 | 0.60 | 1.25 | 22.50 m3 | |
| | | | Rs. 3830.00/m3 | 86175=00 |
| / baladi size stone masonry f stones chisels dressed in at 2m apart in each course plete as per specification | | | | |
| cle page No: 249030 | | | 74.79 m3 | |

M. A. R. 57 (Rule 116)
Measurement Book

No. B

rial No. .....
me of Work ..... From..... To..... 249040
me of Contractor of nature of Agency .....
te of commencement of work .....

| ate | Full description, etc, of work 2 | Dimensions | | | | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | | Number 3 | Length 4 | Breadth 5 | Depth 6 | | |
| | present qty | 2 | 15.00 | 0.45 | 0.70 | 9.45 m2 | |
| | | | | | Limit q. wise | | |
| | | | | | Rs. 4540.00/m3 | | 40860=00 |
| 5) | providing ruled pointing to courled stone masonry with cement mortar 1:4 20mm deep after raking joints to depth of 20mm nicely lining including cost of material labour, curing complete as per specifications. | | | | | | |
| | previous qty Recorded vide page no: 249031 | | | | | | |
| | this MB is | | | | | 124.65 m2 | 4050=00 |

Rs. 90/m2

## REMENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| Length 4 | Breadth 5 | Depth 6 | 7 | 8 |
| " " 15.00 | - | 1.50 | 45.00 m² | |
| | | | Eqs. 90.00/m² | 4050.00 |
| in cement concrete 1:2:4 down size graded granite metal aggregates 0.459 cum machine mixed 15cm thick well compacted in ...y cost of all materials labour etc. | | | | |
| ...rded vide page no: 249032 to | | | | |
| ...'s | | | 24.80 m³ | |
| 18.00 | 0.45 | 0.12 | 1.80 m³ | 9540.00 |
| | | | Eq. 5300.00/m³ | |

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B**

249041

...rial No. .....
...me of Work ..... From..... To.....
...me of Contractor of nature of Agency .....
...te of commencement of work .....

| ...ate | Full description, etc, of work 2 | Dimensions | | | | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | | Number 3 | Length 4 | Breadth 5 | Depth 6 | | |
| 9) | providing and laying in position reinforced cement concrete of design mix M20 with opc cement @ 320 kgs with 20 mm and down size graded granite metal course aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplasticiser @ 8% conforming to IS 9103 - 1999 reaffirmed - 2008 machine mixed concrete laid in layers not exceeding 15cm thick vibrated for all works in foundation plinth and ground floor level for roof slabs staircase, lintel retaining walls, return walls wall (any thickness) including attached pilasters columns etc complete | | | | | | |
| | previous qty | Recorded vide page no: 249033 | | | | | |
| | to 34 of this MB's | | | | | 42.98 m³ | |
| | present qty | 1 | 30.00 | (1.0 + 1.0) / 2 | 0.10 | 12.15 | |

= 22/11

US.EB. (250 ... 2)

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Checked. | 1 | 32.80 | (4.1+3.8) | 0.10 | 12.96 | |
| | | 1 | 20.80 | 3.80 | 0.10 | 7.90 | |
| | | | | | | 75.74 m³ | |
| | | Qty upto 125%. | | | | 13.38 m³ | |
| | | | | | @ Rs. 6000.00/m³ | | 80280.00 |
| | | Qty above 125% | | | | 19.38 m³ | |
| | | | | | @ Rs. 6021.90/m³ | | 116704.00 |
| 8) | providing mild steel reinforcement for RCC work including straightening cutting, bending, hooking, placing in position lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining members | | | | | | |

# REMENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| Length 4 | Breadth 5 | Depth 6 | 7 | 8 |
| 32.80 | (4.1+3.8) | 0.10 | 12.96 | |
| 20.80 | 3.80 | 0.10 | 7.90 | |
| | | | 75.74 m3 | |
| upto 12.5%. | | | 13.38 m3 | |
| | | @Rs. 6000.00/m3 | | 80280.00 |
| above 12.5% | | | 19.38 m3 | |
| | | @Rs. 6021.90/m3 | | 116704.00 |

for RCC work including straightening chain capping and/or welding wherever necessary to the adjoining members

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249042

Serial No. ..... From..... To.....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date | Full description, etc, of work 2 | Dimensions: Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour hire of machinery etc complete. previously Recorded vide page No. 249035 | | | | | | |
| | & this basis | | | | | 38.68 Cft | |
| | | | Present qty | | | - Nil - | |
| 9) | providing and removing centering, shuttering, strutting, propping etc and removal of form work for vertical surface such as walls at any thickness including attached pilasters buttresses plinth and string courses cost of & all material labour etc complete as per specification. | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | previous qty Recorded vide page No: 248035 of this MB is | | | | | 70.22 m² | |
| | Relevied qty | | | | | 104.22 m² | |
| | present qty as per premeasurement Recorded vide page No: 248040 of this MB is | | | | | 19.58 m² | |
| | Qty up to 125 %. | | | | | 35.16 m² | |
| | | | | | Eqv. 290 mm/m² | | 10196:00 |
| | Qty above 125 %. | | | | | 88.67 m² | |
| | | | | | Eqv. 298 mm/m² | | 26424:00 |

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

| Date | Full description, etc, of work |
|---|---|
| | 2 |
| | Item No: 10 to 14 No t |
| 15) | Earth work in excavation an average horizontal thi excavated surface level to be levelled neatly after previo of th |

NT BOOK

| ensions | | Contents | Reference to last Measurem |
|---|---|---|---|
| Breadth 5 | Depth 6 | 7 | 8 |
| | | Page No. 249035 | |
| | | 70.22 m² | |
| | | 104.22 m² | |
| urement Recorded | | | |
| this MB's | | 19.58 m² | |
| 25 %. | | 35.16 m² | |
| Eh. | 290.00/m² | | 10196:00 |
| 125 %. | | 88.67 m² | |
| RR. 298:00/m² | | | 26424:00 |

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249043

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

| ate | Full description, etc, of work 2 | Dimensions | | | | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | | Number 3 | Length 4 | Breadth 5 | Depth 6 | | |
| | Item No: 10 to 14 Not executed | | | | | | |
| 15) | Earth work excavation by manual means in ordinary soil including an average horizontal throw upto 2m and an average lift upto 0.5m excavated surface levelled and sides neatly dressed the disposed earth base levelled neatly after breaking clods complete as per specification. | | | | | | |
| | previous qty Recorded vide Page No: 249035, & this MB's | | | | | 469.80 m² | |
| | | present qty | | | | - Nil - | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurem |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 16) | Lead for disposal of debris shall be payable at carriage rates by mechanical means and including loading and unloading etc complete<br>Previous qty Recorded Qty vide Page No: 2495036 of this MB is<br>Present qty qty vide Item No ①<br>Rs. 70.00/m³<br>E I R L | | | | | 607.93 m³<br>95.78 m³ | 6705=00 |
| 17) | Vacuum De-watering with Vacuum Pump and suction mat and compaction with skin floater clubbed with floating close including cost of generator HSD of machinery screed vibrating power floater blade and close etc complete | | | | | | |

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

M

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Num |
|---|---|---|
| 1 | 2 | 3 |
| | CC Road | |

## REMENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| Length 4 | Breadth 5 | Depth 6 | 7 | 8 |
| be payable at carriage rates of cooling and uncooling as complete | | | | |
| vide Page No: 249036 of this | | | 607.93 m³ | |
| ty vide Item No ① | | | 95.78 m³ | |
| | | | Rs. 70.00/m³ | 6705=00 |
| Pump and suction mat and ered with floating close including screed vibrating Power Floater | | | | |

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B**

249044

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

| ate | Full description, etc, of work 2 | Dimensions: Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | CC Road | 1 | 30.00 | (4.0+4.1) | - | 121.50 | |
| | | 1 | 32.80 | (4.1+3.8) | - | 129.56 | |
| | | 1 | 20.80 | 3.80 | - | 79.04 | |
| | | | | | | 330.10 m² | |
| | | | | | Rs | 94.44/m² | 31175=00 |
| | | | | | Total | | 693761=00 |

Limit: 6.79,960-00

C.F.
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Certificate:<br>certified that the above ~~qty~~ work done is satisfactorily.<br>18.10.16<br>Assistant Engineer / Junior Engineer<br>Vidyaranyapura Sub Division<br>BBMP, Bangalore - 97 | | | | | | |

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date | Full description, etc, of work | No |
|---|---|---|
| 1 | 2 | |
| | Sketch<br>18.10.16 | |

ENT BOOK

| Dimensions th | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurem 8 |
|---|---|---|---|---|
| | | | | |

ve ~~etc~~ work done as it is

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

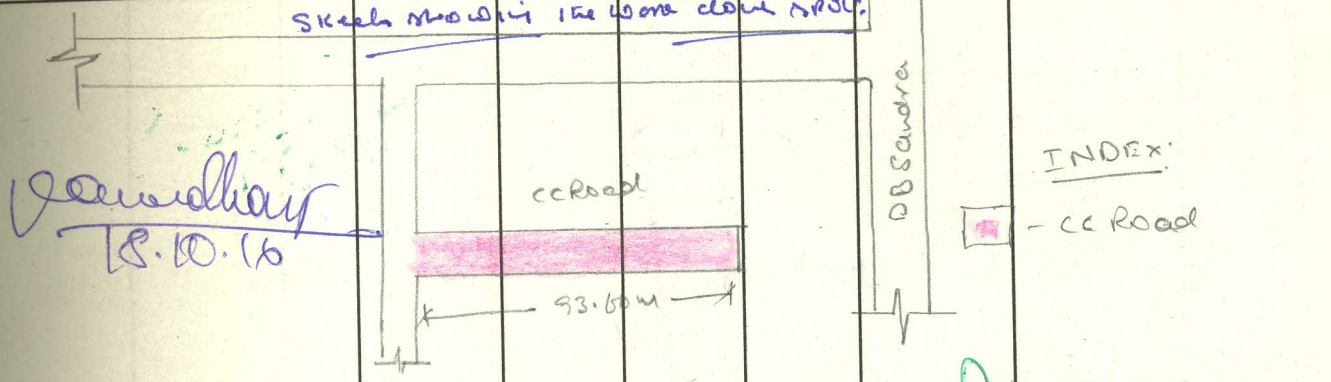
M. A. R. 57 (Rule 116)
Measurement Book

No. B

249045

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date 1 | Full description, etc, of work 2 | Dimensions Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | Sketch showing the work done as per site. | | | | | | |




Veeradhar
13.10.16

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 6.79960-0 | | Total Rs: 19.5.0 | | | 18-0 | |
| | 693760 0 | | IT Chg Paid BR 146/15-16 | | | 27905 8-0 | |
| | 80893-0 | | 31-8-15 | | | | |
| | 612868 5,99067- | | Undefined Rs: 6,79960 0 | | | | |
| | | | | | ST- | 6938-0 | |
| | | | | | VAT- | 27750-0 | |
| | | | | | CUM- | 6938-0 | |
| | | | | | CBP- | 694-0 | |
| | | | | | FSD- | 34688-0 | |
| | | | | | LR- | 3885-0 | |
| | | | | | Adj. | 80893-0 | |
| | | | | | Charges | 612868 0 | |
| | | | | | | 5,99,067-0 | |

23/11/16

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date | Full description, etc, of work |
|---|---|
| 1 | 2 |